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## RAW SEQUENCE LISTING

DATE: 06/28/2001

PATENT APPLICATION: US/09/880,748

TIME: 14:46:49

Input Set : C:\CRF3\PAOLA\PF523 SLtext.txt

Output Set: N:\CRF3\06282001\I880748.raw

3 <110> APPLICANT: Ruben et al.  
5 <120> TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS  
7 <130> FILE REFERENCE: PF523  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/880,748  
C--> 10 <141> CURRENT FILING DATE: 2001-06-15  
12 <150> PRIOR APPLICATION NUMBER: 60/212,210  
13 <151> PRIOR FILING DATE: 2000-06-15  
15 <150> PRIOR APPLICATION NUMBER: 60/240,816  
16 <151> PRIOR FILING DATE: 2000-10-17  
18 <150> PRIOR APPLICATION NUMBER: 60/276,248  
19 <151> PRIOR FILING DATE: 2001-03-16  
21 <150> PRIOR APPLICATION NUMBER: 60/277,379  
22 <151> PRIOR FILING DATE: 2001-03-21  
24 <150> PRIOR APPLICATION NUMBER: 60/293,499  
25 <151> PRIOR FILING DATE: 2001-05-25  
27 <160> NUMBER OF SEQ ID NOS: 3239  
29 <170> SOFTWARE: PatentIn Ver. 2.0  
31 <210> SEQ ID NO: 1  
32 <211> LENGTH: 248  
33 <212> TYPE: PRT  
34 <213> ORGANISM: Homo sapiens  
36 <400> SEQUENCE: 1  
37 Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Leu Lys Lys Pro Gly Gln  
38 1 5 10 15  
41 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Thr Phe Thr Thr Tyr  
42 20 25 30  
45 Trp Ile Gly Trp Val Arg Gln Leu Pro Gly Lys Gly Leu Glu Trp Met  
46 35 40 45  
49 Gly Ile Ile Tyr Pro Gly Asp Ser His Thr Thr Tyr Ser Pro Ser Phe  
50 50 55 60  
53 Glu Gly His Val Asn Ile Ser Val Asp Lys Ser Ile Asn Thr Ala Tyr  
54 65 70 75 80  
57 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
58 85 90 95  
61 Ala Arg His Asp Asp Asp Val Leu Thr Gly Tyr Tyr Phe Glu Ser Trp  
62 100 105 110  
65 Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
66 115 120 125  
69 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
70 130 135 140  
73 Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
74 145 150 155 160  
77 Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
78 165 170 175  
81 Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
82 180 185 190  
85 Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn

ENTERED

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TIME: 14:46:49

Input Set : C:\CRF3\PAOLA\PF523 SLtext.txt

Output Set: N:\CRF3\06282001\I880748.raw

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86          195          200          205
89 Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp
90      210          215          220
93 Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly
94 225          230          235          240
97 Gly Thr Lys Leu Thr Val Leu Gly
98          245
101 <210> SEQ ID NO: 2
102 <211> LENGTH: 249
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 2
107 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
108 1          5          10          15
111 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Asn Asn
112      20          25          30
115 Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
116      35          40          45
119 Gly Gly Ile Ile Pro Met Phe Gly Thr Ala Lys Tyr Ser Gln Asn Phe
120      50          55          60
123 Gln Gly Arg Val Ala Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser
124 65          70          75          80
127 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
128      85          90          95
131 Ala Arg Ser Arg Asp Leu Leu Leu Phe Pro His Tyr Gly Met Asp Val
132      100          105          110
135 Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser
136      115          120          125
139 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Phe Ser Ser Glu Leu
140      130          135          140
143 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Val
144 145          150          155          160
147 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln
148      165          170          175
151 Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn
152      180          185          190
155 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn
156      195          200          205
159 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp
160      210          215          220
163 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Trp Val Phe Gly
164 225          230          235          240
167 Gly Gly Thr Glu Leu Thr Val Leu Gly
168          245
171 <210> SEQ ID NO: 3
172 <211> LENGTH: 254
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 3

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Input Set : C:\CRF3\PAOLA\PF523 SLtext.txt

Output Set: N:\CRF3\06282001\I880748.raw

```

177 Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
178   1           5           10           15
181 Ile Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ala Ser Asn
182           20           25           30
185 Gly Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu
186           35           40           45
189 Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Val Asp Tyr Ala
190           50           55           60
193 Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
194   65           70           75           80
197 Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
198           85           90           95
201 Tyr Tyr Cys Ala Arg Asp Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr
202           100          105          110
205 Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
206           115          120          125
209 Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
210           130          135          140
213 Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Arg Gly Gln Ser
214 145           150          155          160
217 Ile Thr Ile Ser Cys Thr Gly Thr Thr Gly Asp Val Gly Gly Tyr Asp
218           165          170          175
221 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Leu
222           180          185          190
225 Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
226           195          200          205
229 Ala Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln
230           210          215          220
233 Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Thr Tyr Ala Pro Pro Gly
234 225           230          235          240
237 Ile Ile Met Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
238           245          250
241 <210> SEQ ID NO: 4
242 <211> LENGTH: 255
243 <212> TYPE: PRT
244 <213> ORGANISM: Homo sapiens
246 <400> SEQUENCE: 4
247 Arg Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
248   1           5           10           15
251 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asp
252           20           25           30
255 His Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
256           35           40           45
259 Gly Trp Ile Ser Pro His His Gly Lys Thr Asn Tyr Ala Gln Lys Leu
260           50           55           60
263 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
264   65           70           75           80
267 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
268           85           90           95

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Input Set : C:\CRF3\PAOLA\PF523 SLtext.txt

Output Set: N:\CRF3\06282001\I880748.raw

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271 Ala Arg Val Gln Met Asp Ser Glu Tyr Tyr Asp Leu Leu Thr Gly Ile
272          100          105          110
275 Asn Val Gly Pro Tyr Tyr Phe Asp Tyr Trp Gly Lys Gly Thr Leu Val
276          115          120          125
279 Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
280          130          135          140
283 Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu
284 145          150          155          160
287 Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr
288          165          170          175
291 Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val
292          180          185          190
295 Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
296          195          200          205
299 Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln
300          210          215          220
303 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly
304 225          230          235          240
307 Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
308          245          250          255
311 <210> SEQ ID NO: 5
312 <211> LENGTH: 249
313 <212> TYPE: PRT
314 <213> ORGANISM: Homo sapiens
316 <400> SEQUENCE: 5
317 Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Asp Gln Pro Gly Arg
318 1          5          10          15
321 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
322          20          25          30
325 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
326          35          40          45
329 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
330          50          55          60
333 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
334 65          70          75          80
337 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
338          85          90          95
341 Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly
342          100          105          110
345 Met Asp Val Trp Gly Gln Gly Pro Met Val Ala Val Ser Ser Gly Gly
346          115          120          125
349 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu
350          130          135          140
353 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile
354 145          150          155          160
357 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln
358          165          170          175
361 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys
362          180          185          190

```

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DATE: 06/28/2001

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TIME: 14:46:49

Input Set : C:\CRF3\PAOLA\PF523 SLtext.txt

Output Set: N:\CRF3\06282001\I880748.raw

```

365 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn
366      195      200      205
369 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp
370      210      215      220
373 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly
374 225      230      235      240
377 Gly Gly Thr Lys Leu Thr Val Leu Gly
378      245
381 <210> SEQ ID NO: 6
382 <211> LENGTH: 251
383 <212> TYPE: PRT
384 <213> ORGANISM: Homo sapiens
386 <400> SEQUENCE: 6
387 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser
388 1      5      10      15
391 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His
392      20      25      30
395 Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
396      35      40      45
399 Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe
400      50      55      60
403 Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe
404 65      70      75      80
407 Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
408      85      90      95
411 Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly
412      100     105     110
415 Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
416      115     120     125
419 Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro
420      130     135     140
423 Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr
424 145     150     155     160
427 Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val Gln Trp Tyr Gln
428      165     170     175
431 Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile His Gly Asn Asn Asn
432      180     185     190
435 Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr
436      195     200     205
439 Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Asp Glu Asp Glu Ala Asp
440      210     215     220
443 Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Phe Ser Gly Tyr Val
444 225     230     235     240
447 Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
448      245     250
451 <210> SEQ ID NO: 7
452 <211> LENGTH: 250
453 <212> TYPE: PRT
454 <213> ORGANISM: Homo sapiens

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

DATE: 06/28/2001

PATENT APPLICATION: US/09/880,748

TIME: 14:46:50

Input Set : C:\CRF3\PAOLA\PF523 SLtext.txt

Output Set: N:\CRF3\06282001\I880748.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:22330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319  
L:53956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:771  
L:60971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:870  
L:60975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:870  
L:60979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:870  
L:61003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:870  
L:61007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:870  
L:61019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:870  
L:62070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:885  
L:63266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:902  
L:66495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:948  
L:69684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:994  
L:70632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1007  
L:70644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1007  
L:74893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1067  
L:74924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1068  
L:75065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1070  
L:75724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1079  
L:75732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1079  
L:75736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1079  
L:78467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1118  
L:81876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1166  
L:96911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1379  
L:102770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1463  
L:103612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1475  
L:104408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486  
L:104416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486